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FOURTH ANNUAL REPORT
OF THE
Department of
Mines and Minerals
OF THE
PROVINCE OF ALBERTA
FOR THE
Fiscal Year Ended March 31st
1953

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON
PRINTED BY A. SHNITKA, QUEEN'S PRINTER
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To the Honourable J. J. Bowlen,
Lieutenant Governor of the Province of Alberta.

SIR:

I have the honour to submit the Report of the Department of Mines and Minerals for the fiscal year ended March 31st, 1953.

I have the honour to be, Sir,

Your obedient servant,

ERNEST C. MANNING,
Minister of Mines and Minerals.

Edmonton, December 30th, 1953.

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CHIEF OFFICERS,
DEPARTMENT OF MINES AND MINERALS

March 31st, 1953

Hon. Ernest C. Manning	<i>Minister</i>
H. H. Somerville	<i>Deputy Minister</i>
N. A. Macleod	<i>Solicitor</i>
C. W. Jackman	<i>Statistician</i>
W. E. Shillabeer	<i>Administrative Accountant and Personnel Officer</i>

MINERAL RIGHTS DIVISION

J. W. Patrick	<i>Director</i>
R. A. Seaton	<i>Assistant Director</i>
D. F. Morrison	<i>Supervisor of Leases and Mining Recorder, Edmonton District</i>
A. Z. Choquette	<i>Mining Recorder, Calgary District</i>
A. E. Kynnersley	<i>Supervisor of Revenue</i>

MINES DIVISION

J. Crawford	<i>Director</i>
J. A. Dutton	<i>Assistant to Director</i>

MINERAL TAXATION DIVISION

E. F. Gilker	<i>Chief Assessor</i>
W. McGeachie	<i>Assessor, Northern District</i>
V. L. Scott	<i>Assessor, Southern District</i>

TECHNICAL DIVISION

H. B. Grove	<i>Superintendent</i>
J. M. Novak	<i>Chief Draughtsman</i>

RIGHT OF ENTRY ARBITRATION ACT
BOARD OF ARBITRATORS

N. G. Meldrum	<i>Chairman</i>
P. J. Skrypnik	<i>Member</i>
T. E. Stickney	<i>Member</i>
A. E. Fahlman	<i>Secretary</i>

FOURTH ANNUAL RERORT

of the

Department of Mines and Minerals

HONOURABLE ERNEST C. MANNING,
Minister of Mines and Minerals,
Edmonton, Alberta.

Sir:

I have the honour to present the Annual Report of the Department of Mines and Minerals for the fiscal year ending March 31st, 1953.

During the year development of our mineral resources continued to bring economic benefits to our province and to all Canadians generally.

The surplus of \$57,828,793.12 on income account was an increase of \$16,970,196.85 over the surplus for the previous year. This increase is attributable principally to mineral development.

The oil production potential of the province continued to increase and construction of new pipelines and the looping of existing ones will expand our market area to the Pacific Coast and provide a complete pipeline outlet to Ontario of greater capacity.

A substantial portion of the 711-mile pipeline of 24-inch diameter from Edmonton to Vancouver was completed. It is anticipated that this line will not only supply refineries in the Vancouver area, but will provide oil for other Pacific Coast markets.

Five new pumping stations were added to the Interprovincial pipeline and the looping of a 100-mile section of 16-inch line was completed. Plans were made to construct 635 miles of 30-inch line between Superior, Wisconsin and Sarnia, Ontario. This will provide for larger oil movements than can be handled by the combined pipeline and tanker facilities and make this the longest pipeline in the world.

New gathering facilities completed in the year include the 115-mile line from Big Valley to Edmonton. Oil is collected from the Big Valley, Fenn, Stettler, Malmo, New Norway and Duhamel areas. The line linking Joseph Lake with the terminal at Edmonton was extended to take oil from the Armena-Camrose field. A line of 68 miles was constructed linking the Westerose, Bonnie Glen, Wizard Lake and Glen Park fields with Edmonton.

In Turner Valley the second sulphur plant in the province started operation in July. This plant is capable of producing 30 long tons of sulphur per day and brings the provincial daily capacity to 60 long tons.

Legislation

On April 10th, 1952, amendments to The Mechanics' Lien Act, The Mines and Minerals Act and The Quarries Regulation Act came into force upon assent. A provision was added to The Mechanics' Lien Act so that the lien holder's claim rising in connection with a mining, drilling or prospecting operation would attach only to the mineral. Also the provisions regarding liens filed with the Minister of Mines and Minerals were clarified, and extended from liens arising from operations in connection with oil or gas wells to include operations arising from any mining operations where the mineral is held under an agreement from the Crown. The amendments to The Mines and Minerals Act added sulphur to the minerals to which the provisions regarding quartz-mining rights do not apply; clarified the duty of the holder of a road-allowance lease to observe orders designed to maintain the road; simplified the requirements to be met by the applicant for a petroleum and natural gas lease in unsurveyed territory in describing the tract applied for; clarified the provision dealing with the surrender of a petroleum and natural gas lease and substituted new sections dealing with an application for a license to conduct geophysical or geological exploration and with the reports of the licensee. The amendment to The Quarries Regulation Act authorizes regulations prescribing fees for examinations and certificates.

On July 1st an Act amending The Oil and Gas Resources Conservation Act, 1950, came into effect. The lien against oil and gas property arising upon the failure to pay the taxes and penalties levied by The Petroleum and Natural Gas Conservation Board was defined and a number of other amendments of a minor nature were made to the Act. Another 1952 Statute of concern to that Board came into effect on April 10th when the Pipe Line Act, 1952, replaced the older Pipe Line Act. By the provisions of the new Act, the person proposing to construct a pipe line for oil or gas or incidental to oil or gas production operations, may obtain a permit to construct the line from the Minister of Highways, and thereafter may obtain from the Board of Public Utility Commissioners the powers to acquire the land needed for the line and the right to operate the line. When the application is made to the Minister of Highways, a copy of the application and related material is filed with the Petroleum and Natural Gas Conservation Board and the Board submits recommendations which the Minister may consider in dealing with the application.

On July 1st, 1952, The Right of Entry Arbitration Act, 1952, came into force and effect, replacing the 1947 Statute. The new Act endeavours to clarify some of the points which experience showed were uncertain under the provisions of the former legislation. The Act provides for the appointment of the Board of Arbitration and prescribes its duties and also defines and governs proceedings taken under the Act. One new provision makes it clear that an operator whose lessor owns both the surface and the minerals does not acquire the right to use the surface unless he complies with the provisions of the Act. The provisions dealing with the termination of a right of entry order are extended to apply to orders made by

the Board of Public Utility Commissioners or other competent authority before the Board of Arbitration was constituted.

The 1953 Session of the Legislative Assembly made further statutory changes affecting the Department before the end of the year. Bills amending The Mineral Taxation Act, 1947, The Oil and Gas Resources Conservation Act, 1950, The Mines and Minerals Act and The Right of Entry Arbitration Act, 1952, and a Bill enacting The Coal Sales Act all were assented to on March 31st, 1953. The amendment to The Mines and Minerals Act comes into force on the 1st of April, 1953, and The Coal Sales Act comes into force on July 1st, 1953. The remainder of the Acts came into force upon assent. The Session also passed an amendment to The Mechanics' Lien Act on April 2nd, 1953.

As the amendment to The Mineral Taxation Act, 1947, was the first in three years, there were a number of amendments to be made to the existing provisions, and in addition a new provision was added so that where minerals vest in Her Majesty under the provisions of the Act, the installations and fixtures including casing that may have been put in to work the minerals also vest in the Crown. Amendments to The Right of Entry Arbitration Act, 1952, The Oil and Gas Resources Conservation Act, 1950, and The Mines and Minerals Act, provide for instances where operations to recover minerals lying within a tract are conducted from a point on the surface lying outside of the tract. The amendment to The Oil and Gas Resources Conservation Act, 1950, also increased the minimum amount of tax on an oil and gas property under the Act from one to three dollars. The Act amending The Mines and Minerals Act contained provisions outlining the right of a person authorized by the Minister to make an investigation or inspection, to enter into lands in the Province and into plants for the recovery or processing of a mineral; and a provision was added enabling the Lieutenant Governor in Council to authorize the Minister to issue natural gas leases in certain cases. The Bill also repealed The Registration of Assignments of Crown Lands Act and added Part VIII dealing with the registration of assignments to The Mines and Minerals Act. Part VIII provides for the registration of assignments of agreements granted under the Act, for the refusing of assignments if they do not comply with certain specifications, and for priority of assignments determined by registration. A declaratory provision was also added concerning the effect of an assignment in which the same person appeared both as an assignor and an assignee.

The Coal Sales Act will replace The Coal Sales Act, 1925. It empowers the Lieutenant Governor in Council to make regulations respecting certain matters therein set out which are concerned in the buying and selling of coal in the proper manner in the Province.

Regulations

During the year two changes were made in regulations made under The Coal Mines Regulation Act. By Order in Council 848/52, amendment was made to that part of the regulations governing the operation of strip pit mines dealing with qualifications for certificates of competency. By Order in Council 1708/52 the regulations

covering care and use of explosives were amended to permit the use of milli-second delay action detonators.

The Regulations Governing the Reservation of Petroleum and Natural Gas Rights, the Property of the Crown, for Geological or Geophysical Examination, or for Drilling of Wells for Geological Information, established pursuant to The Mines and Minerals Act were amended in May and December of 1952. The May amendment provided that a reservation holder would have up to the time of the termination of his reservation to apply for extensions of all the renewals he may have obtained for which extensions are permitted by the regulations. By the later amendment to the reservation regulations, an additional circumstance was provided under which an extension to a reservation might be obtained. If the holder of the reservation is precluded from drilling a well before the expiration of the last renewal, the Minister, on the recommendation of the Board of Arbitrators, may extend the period of renewal upon certain terms including the placing of a deposit, which will not be refunded unless the drilling of a well is commenced within the extension period or the reservation is surrendered without application for leases. These regulations were changed also as to the provisions prescribing the manner in which leases may be selected out of the reservation area with a view to making the selection of leases in unsurveyed territory as similar as possible to those in surveyed territory. A further order made it possible for the holder of a lease of the petroleum and natural gas rights in unsurveyed territory, applied for under the regulations before the amendment, to re-select the location of his lease in accordance with the new amended provisions. The Regulations Governing the Licensing of Natural Gas Rights, the Property of the Crown for Drilling of Wells, established under The Mines and Minerals Act, were amended so that an application for a lease out of the license may be made in unsurveyed territory without staking. These regulations were also amended to prescribe an annual rental of thirty-three and one-third cents per acre where a market for the gas is available and to prescribe the portion of the production on which royalty is to be paid where the area assigned to the well is partially contained in the location. At the time these changes were made, similar regulations were established Governing the Granting of Licenses of Natural Gas Rights in Crown Reserves. A further change in the Regulations Governing the Licensing of Natural Gas Rights the Property of the Crown for Drilling of Wells provided that if the licensee determined the presence of natural gas in commercial quantity in a zone or zones in the license and delimited the field by drilling, he might apply for a lease or leases in the field so delimited, within the zone or zones described in the license.

During the year the Drilling and Production Regulations, established pursuant to The Oil and Gas Resources Conservation Act, 1950, were twice amended. The only substantial change, however, was in the provisions prescribing the area of a spacing unit and the area allocated for production to a well in the ordinary case. The existing provisions were made applicable to oil wells and new provisions were added governing gas wells.

Litigation

On the 24th of March, 1953, the Lords of the Judicial Committee of the Privy Council delivered two judgments affecting the Department of Mines and Minerals. In the case of the Attorney General of the Province of Alberta vs. Huggard Assets Limited the Judicial Committee had to consider the effect of a grant of mines and minerals by the Dominion in 1913 subject to royalty upon the petroleum and natural gas, if any, from time to time prescribed by the regulations. At the time of the grant there were no such regulations and the Judicial Committee concluded that the Province now had the power to prescribe and levy a royalty.

In the case of the Attorney General of the Province of Alberta vs. West Canadian Collieries Ltd. et al, the Judicial Committee considered section 44 (c) added to The Provincial Lands Act in 1948. This section was carried forward into The Mines and Minerals Act in 1949 as section 216. It was found that the section in so far as it dealt with grants by the Dominion was repugnant to the Transfer Agreement and ultra vires, and in so far as it dealt with other grants, the provisions of the section were not severable so that the whole section was ultra vires.

The interests of the Department in the above two cases were argued during their courses through the Courts by H. J. Wilson, Q.C., Deputy Attorney General, and W. Y. Archibald, Solicitor of the Attorney General's Department.

Mr. Archibald also appeared for the Department in the case known in the Department as the "Hagen case" which arose on a reference by the Registrar of the North Alberta Land Registration District. The title to the surface was originally granted by a patent in 1892, which reserved to the Crown all mines and minerals. In the title following the Letters Patent and in subsequent titles down to and including that of the present owner, Hagen, this reservation was omitted. A correction was made in the Land Titles Office reserving the mines and minerals, and to decide the contention of the owner that the correction should not be made, the reference was made to the Court. Upon argument before the Hon. Mr. Justice Hugh John Macdonald of the Trial Division, Supreme Court of Alberta, judgment was reserved. (Judgment was delivered on June 19th, 1953. Because of section 61 of the Land Titles Act, and similar provisions in statutes which preceded it, it was found that title to the land was subject to the reservations in the original grant from the Crown, and the correction of his title had been correctly made.)

On May 31st, 1952, I. N. McKinnon resigned the position of Deputy Minister of this Department to devote full time to his duties as Chairman of the Petroleum and Natural Gas Conservation Board. From the time of organization of the Department in 1949, Mr. McKinnon served in the dual capacity and it was during this period that the preliminary organization of the department took place.

At the end of the fiscal year Mr. John Crawford retired from his position as Director of Mines. A replacement has not yet been made. Mr. Crawford joined the Department of Lands and Mines as District Inspector of Mines at Drumheller in September, 1937. He was

promoted to Chief Inspector in January, 1944. When the Department of Mines and Minerals was organized in April, 1949, he became the first Director of Mines in the new department.

Mr. M. B. Crockford became first chief geologist to this Department when he was transferred from the Alberta Research Council on May 1, 1949. He resigned his position on April 16, 1952, and no replacement has yet been made.

During the year death claimed Mr. A. Clark, member of the Right of Entry Arbitration Board. Mr. Clark served for two years as Board member in the period of great activity brought on by the rapid development of recently discovered oil reserves.

A separate report is issued yearly by the Mines Division and may be obtained by contacting the Mines Division of this Department in the Provincial Building, Edmonton.

Detailed reports of the other divisions follow.

All of which is respectfully submitted.

H. H. SOMERVILLE,
Deputy Minister.

December 23, 1953.

Mineral Rights Administration

Report of Director of Mineral Rights

J. W. PATRICK

In the fourth year of administration by the Department of Mines and Minerals the development of the mineral resources of the Province has progressed at a very satisfactory rate.

Footage drilled for petroleum and natural gas during 1952 was 6,631,529 feet, an increase of 1,068,864 feet over 1951. The production of crude oil increased to 58,915,723 barrels, exceeding the production of 1951 by 13,000,339 barrels. There were 11 new fields discovered and the average daily rate of production possible increased by 48,000 barrels to 293,000 barrels but because of inadequate markets the average daily oil produced was only 180,000 barrels, an increase of 47 per cent over the previous year. The number of producing oil wells increased from 2,738 to 3,659.

Production of coal in Alberta in 1952 decreased by 466,804 tons. This decline in coal production is chiefly attributable to the loss of markets by the increase in the use of substitute fuels.

The production and value of Alberta's chief minerals for 1952 were: crude oil, 58,915,723 barrels, valued at \$139,657,915.00; coal, 7,194,472 tons, valued at \$39,974,318.00; natural gas, *70,016,488 Mcf., valued at \$3,500,824.40; and salt, 24,550 tons, valued at \$816,166.00.

Mineral rights, solid, liquid and gaseous, the property of the Crown in the right of the Province, are not sold, but are disposed of by lease, reservation, license, permit or other agreement for limited periods of time. Revenue is obtained from fees, rentals, bonuses, royalties, sales of leases and tax on assignments and sub-leases. During the fiscal year these sources provided a revenue of \$57,595,666.46, being an increase of \$16,966,780.91 from the previous year. Sales of leases and reservations in Crown reserves were held on three occasions as in the previous fiscal year but the revenue from this source increased nine million dollars.

The Province is divided into two mining districts: the Edmonton district comprises that portion of the Province lying to the north of the north boundary of Township 42 and the balance of the Province lying to the south is contained in the Calgary district.

During the year 6,960 applications for mineral rights were filed at the offices of the Mining Recorders in Edmonton and Calgary and at the office of the Department in Edmonton. Numerous inquiries were made as to the availability of mineral rights, mostly for petroleum and natural gas leases and reservations by personal application and by correspondence.

During the year under review 5,963 leases and 219 reservations were issued and a tabulation follows showing the number and acreage of the various leases.

*Includes only marketed and consumed gas.

MINERAL RIGHTS LEASES

Type of Lease	Active at April 1, 1952	Issued	Reinstated	Divided	Cancelled	Renewed	Active at March 31, 1953
Petroleum and Natural Gas.....	15,658	5,901	27	410	1,210	1	20,785
Coal.....	619	37	39	1	616
Road Allowance Coal.....	135	19	18	7	129
Quarrying.....	17	6	2	21
Salt.....	2	2
Bituminous Sands.....	1	1
Miscellaneous.....	2	2
TOTAL.....	16,434	5,963	27	410	1,269	9	21,556

ACREAGE CONTAINED IN ABOVE LEASES

Type of Lease	Active at April 1, 1952	Issued	Reinstated	Cancelled	Renewed	Active at March 31, 1953
Petroleum and Natural Gas.....	10,901,229	7,022,659	8,966	2,461,079	2,304	15,469,471
Coal.....	172,435	8,414	6,220	80	174,549
Quarrying.....	2,331	512	320	2,523
Salt.....	1,204	1,204
Bituminous Sands.....	3,898	3,898
Miscellaneous.....	3,522	3,522
TOTAL.....	11,084,619	7,031,585	8,966	2,467,619	2,384	15,655,167

STATEMENT OF BUSINESS TRANSACTED, 1952-53

PETROLEUM AND NATURAL GAS

	Number	Acres
Leases issued	5,901	7,022,659
Leases cancelled and relinquished	1,210	2,461,079
Leases reinstated	27	8,966
Prospecting reservations granted	219	9,157,312
Prospecting reservations terminated	311	21,649,283
Natural Gas Licenses issued	14	529,288
Natural Gas Licenses cancelled and relinquished	3	243,080
Natural Gas Licenses reduced in area	7	335,348
Crown Reserve Natural Gas Licenses issued	7	157,019
Crown Reserve Natural Gas Licenses cancelled
Fees, rentals and bonuses collected		\$19,619,819.81
Royalties collected		13,510,951.66
Crown reserve sales		23,527,443.66
TOTAL		\$56,658,215.13

COAL

	Number	Acres
Leases issued	37	8,414
Leases cancelled and relinquished	39	6,220
Road Allowance Leases—		
Leases issued	19
Leases cancelled and relinquished	18
Fees and rentals collected		\$176,175.24
Royalties collected		379,492.51
TOTAL		\$555,667.75

QUARRYING

	Number	Acres
Quarrying leases issued	6	511
Quarrying leases cancelled and relinquished	2	320
Fees and rentals collected	\$ 227.23	
Royalties collected	29,309.75	
TOTAL	\$29,536.98	

MISCELLANEOUS

	Number	
Bituminous sands permits issued	13	
Bituminous sands permits renewed	1	
Permits to collect bitumen renewed	1	
Quartz—		
Claims recorded	321	
Certificates of Work issued	23	
Certificates of Partnership issued	3	
Powers of Attorney filed	46	
Placer—		
Claims recorded	12	
Renewals issued	3	
Powers of Attorney filed		
Sulphur permits issued		
Sulphur permits renewed	1	
Sulphur permits cancelled	1	
Special mineral leases issued		
Special permits issued	1	
Special permits cancelled	1	
Geophysical licenses issued	272	
Permits to operate Geophysical Equipment issued	147	
Fees, rentals, royalties and tax on assignments and subleases collected		\$352,246.60

PETROLEUM AND NATURAL GAS

Leases.—During the year 5,901 petroleum and natural gas leases were granted covering 7,022,659 acres and at the close of the fiscal year a total of 20,785 leases were in existence comprising an area of 15,469,471 acres.

The revenue received from fees amounted to \$62,320.00. The revenue from lease rentals was \$12,192,089.06 and the revenue from bonuses accepted by the Mining Recorders at sales of petroleum and natural gas leases by tender amounted to \$350,567.59.

Disposal of Crown Reserves.—Petroleum and natural gas rights comprised in Crown reserves may be disposed of by order of the Lieutenant Governor in Council and during the year 175 leases and one prospecting reservation were purchased, and particulars of these Crown reserve purchases are included in this report.

Regulations governing the granting of Licenses of Natural Gas Rights in Crown reserves were established on December 1, 1952. These regulations provide for the disposal of Crown reserves as Natural Gas Licenses and a person desiring to obtain a license shall submit to the Director of Mineral Rights a request that the natural gas rights in the Crown reserves for which he wishes to acquire the license be made available for disposal. The Minister may direct the disposal of natural gas rights comprising those described in the request with the addition or deletion of such Crown reserves as the Minister deems desirable. During the year seven Crown Reserve Natural Gas Licenses were purchased and particulars of these

Crown reserve natural gas license purchases are included in this report.

CROWN RESERVES PURCHASED IN LEDUC AREA

Description	Offer Accepted from:	Cash Purchase Price
S.E. ¼ 18-49-25-4	High Crest Oils Limited and Albermont Petroleums Limited	\$ 279,831.02
S.W. ¼ 20-49-25-4	National Trust Company Limited	216,101.00
N.W. ¼ 22-49-26-4	American Leduc Petroleums Limited	100,160.00
S.W. ¼ 22-49-26-4	Canada Southern Oils Ltd.	185,189.67
S.E. ¼ 2-49-27-4	The British American Oil Company Limited	551,100.00
S.W. ¼ 18-49-25-4	Mill City Petroleums Limited	241,011.00
N.W. ¼ 20-49-25-4	New Devon Petroleums Ltd.	31,773.00
L.S.'s 3 and 4 of 7-51-25-4 —82 acres	Acheson-East Oil & Gas Co. Ltd.	5,202.00
N.E. ¼ 22-49-26-4	Ross Oils of Alberta Ltd.	143,777.00
S.E. ¼ 22-49-26-4	West Canadian Petroleums Ltd.	106,503.00
		<hr/> \$1,860,647.69

CROWN RESERVES PURCHASED IN GOLDEN SPIKE AREA

Description	Offer Accepted from:	Cash Purchase Price
N.E. ¼ 33-51-27-4	Shell Oil Company	\$126,000.00
S.W. ¼ 34-51-27-4	Anglo-Canadian Oil Company Limited and Calmont Oils Limited	252,960.60
S.E. ¼ 4-52-27-4	Anglo-Canadian Oil Company Limited	30,480.00
S.W. ¼ 4-52-27-4	Anglo-Canadian Oil Company Limited	20,160.00
		<hr/> \$429,600.60

CROWN RESERVES PURCHASED IN REDWATER AREA

Description	Offer Accepted from:	Cash Purchase Price
S.E. ¼ 33-56-21-4	Scurry Oils Limited	\$ 72,000.00
		<hr/> \$ 72,000.00

CROWN RESERVES PURCHASED IN STETTTLER AREA

Description	Offer Accepted from:	Cash Purchase Price
S.E. ¼ 4-38-20-4	Canadian Gulf Oil Company	\$110,500.00
N.E. ¼ 22-38-20-4	Canadian Fina Oil Limited, West Canadian Petro- leums Limited and Ross Oils of Alberta Limited, to each an undivided one-third interest	140,006.00
		<hr/> \$250,506.00

CROWN RESERVES PURCHASED IN ARMENA AREA

Description	Offer Accepted from:	Cash Purchase Price
N.E. ¼ 26-48-21-4	Punch Petroleum Limited (No Personal Liability)	\$577,117.11
S.E. ¼ 34-48-21-4	The British American Oil Company Limited	602,195.00
S.W. ¼ 34-48-21-4	Albermont Petroleum Limited	707,607.77
N.E. ¼ 24-48-21-4	The British American Oil Company Limited	604,305.00
N.W. ¼ 24-48-21-4	West Canadian Petroleum Limited	477,117.11
S.E. ¼ 4-49-21-4	Link & Nauss Ltd.	471,830.00
N.E. ¼ 4-49-21-4	Imperial Oil Limited	201,153.00
		<hr/>
		\$3,641,324.99

CROWN RESERVES PURCHASED IN CAMROSE AREA

Description	Offer Accepted from:	Cash Purchase Price
N.E. ¼ 32-47-20-4	Scurry Oils Limited	\$360,000.00
S.W. ¼ 4-48-20-4	The British American Oil Company Limited	304,501.00
S.E. ¼ 12-48-21-4	Texaco Exploration Company	327,000.00
		<hr/>
		\$991,501.00

CROWN RESERVES PURCHASED IN MALMO AREA

Description	Offer Accepted from:	Cash Purchase Price
N.W. ¼ 10-44-22-4	Home Oil Company Limited	\$173,506.66
N.E. ¼ 14-44-22-4	Shell Oil Company	403,200.00
		<hr/>
		\$576,706.66

CROWN RESERVES PURCHASED IN NEW NORWAY AREA

Description	Offer Accepted from:	Cash Purchase Price
S. ½ 29-44-21-4	Herman G. Kopald	\$ 64,200.00
S.W. ¼ 6-45-21-4	Scurry Oils Limited	49,830.00
		<hr/>
		\$114,030.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

Description	Offer Accepted from:	Cash Purchase Price
L.S.'s 10 and 16 of Sec. 15-45- 6-4	American Northland Oil Company	\$ 1,060.80
L.S. 13 of Sec. 17-45- 6-4	American Northland Oil Company	1,172.92
N.E. ¼ 1-24-13-4	Amurex Oil Development Company	4,260.80
S. ½ 1-24-13-4	Amurex Oil Development Company	8,143.77
N. ½ 12-24-13-4	Amurex Oil Development Company	8,598.40
S.E. ¼ 12-24-13-4	Amurex Oil Development Company	4,148.80
W. ½ 16-33-13-4	Sinclair Canada Oil Company	8,007.11
N.E. ¼ 18-33-13-4	Sinclair Canada Oil Company	4,007.11
W. ½ 2-37-17-4	Home Oil Company Limited	16,012.25

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description	Offer Accepted from:	Cash Purchase Price
Sec. 16-60-17-4	Canadian Fina Oil Limited and Calvan Consolidated Oil & Gas Company Limited	6,430.00
Sec. 12-59-18-4	Great Plains Development Company of Canada Ltd.	6,636.87
Sec. 34-46-20-4	Scurry Oils Limited	276,000.00
S.½ 18-39-21-4	Shell Oil Company	326,000.00
N.E.¼ 32-38-22-4	Canadian Gulf Oil Company	201,200.00
N.W.¼ 32-38-22-4	Canadian Gulf Oil Company	201,200.00
N.E.¼ 34-41-22-4	Scurry Oils Limited	22,000.00
S.E.¼ 34-41-22-4	Scurry Oils Limited	15,000.00
N.W.¼ 36-41-22-4	Scurry Oils Limited	26,000.00
N.W.¼ 11-44-22-4	Carleton Oils Limited and Renfrew Petroleums Limited	154,671.30
S.W.¼ 11-44-22-4	Calvan Consolidated Oil & Gas Company Limited	153,335.00
S.½ 32-37-23-4	Ross Oils of Alberta Limited	51,677.00
N.½ 2-40-23-4	Stanolind Oil and Gas Company	67,840.00
S.E.¼ 2-40-23-4	Royalite Oil Company Limited	25,191.00
S.E.¼ 20-52-23-4	Imperial Oil Limited	8,533.00
N.E.¼ 10-12-24-4	Seaboard Oil Company of Delaware, Socony-Vacuum Exploration Company and Great Plains Development Company of Canada Ltd.	5,516.00
N.W.¼ 11-12-24-4	Seaboard Oil Company of Delaware, Socony-Vacuum Exploration Company and Great Plains Development Company of Canada Ltd.	5,516.00
N.W.¼ 12-12-24-4	Seaboard Oil Company of Delaware, Socony-Vacuum Exploration Company and Great Plains Development Company of Canada Ltd.	2,132.00
S.E.¼ 12-12-24-4	G. W. H. Millican	4,400.00
E.½ 35-60-24-4	Canadian Gulf Oil Company	41,255.00
E.½ 3-62-24-4	Great Plains Development Company of Canada Ltd.	10,527.76
S.E.¼ 9-62-24-4	Great Plains Development Company of Canada Ltd.	8,636.89
S.W.¼ 10-62-24-4	Great Plains Development Company of Canada Ltd.	8,691.27
N.½ 2-42-25-4	The British American Oil Company Limited	65,110.00
L.S. 1 of Sec. 4-52-25-4	Asher Oil Company Limited	36,339.00
N.½ 6-34-26-4	Bailey Selburn Oil & Gas Ltd.	43,834.84
S.½ 18-34-26-4	Bailey Selburn Oil & Gas Ltd.	43,834.84
N.W.¼ 4-54-26-4	Merrill Canadian Oil No. 1 Limited	17,777.78
S.E.¼ 4-54-26-4	G. W. H. Millican	62,271.00
S.E.¼ 8-54-26-4	Merrill Canadian Oil No. 1 Limited	13,333.34
N.E.¼ 12-54-26-4	Texaco Exploration Company	43,600.00
S.E.¼ 12-54-26-4	Scurry Oils Limited	38,000.00
Sec. 18-59-26-4	Union Oil Company of California	39,121.56
S.E.¼ 20-47-27-4	Texaco Exploration Company	2,100,500.00
S.W.¼ 29-47-27-4	Texaco Exploration Company	3,110,000.00
N.E.¼ 18-50-27-4	Seaboard Oil Company of Delaware	25,215.00
S.E.¼ 20-50-27-4	G. W. H. Millican	10,000.00
S.W.¼ 20-50-27-4	Calvan Consolidated Oil & Gas Company Limited and Pacific Petroleums Ltd.	5,101.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA
(Continued)

Description	Offer Accepted from:	Cash Purchase Price
Sec. 12-46-28-4	Shell Oil Company	351,000.00
N.½ 12-32- 1-5	Shell Oil Company	33,000.00
N.½ 32-43- 1-5	Shell Oil Company	154,000.00
S.½ 12-43- 2-5	Shell Oil Company	334,000.00
Sec. 14-17- 3-5	Anglo-Canadian Oil Company Limited	6,470.41
Sec. 28-56- 3-5	Texaco Exploration Company	43,600.00
L.S.'s 3, 4, 5, 12 & 13 of Sec. 16-26- 5-5	Shell Oil Company of Canada Limited	10,500.00
Sec. 20-26- 5-5	Shell Oil Company of Canada Limited	65,000.00
N.½ & L.S.'s 1, 7 & 8 of Sec. 22-26- 5-5	Shell Oil Company of Canada Limited	44,500.00
Sec. 28-26- 5-5	Shell Oil Company of Canada Limited	64,500.00
Sec. 29-26- 5-5	Shell Oil Company of Canada Limited	64,500.00
Sec. 30-26- 5-5	Shell Oil Company of Canada Limited	32,500.00
S.½ 32-26- 5-5	Shell Oil Company of Canada Limited	24,500.00
N.½ 24-50- 1-4	Husky Oil & Refining Ltd.	3,250.00
S.½ 6-33- 3-4	Trans Empire Oils Ltd.	3,211.90
N.E.¼ 26-49-12-4	Hudson's Bay Oil and Gas Company Limited	2,443.20
S.½ 32-49-12-4	Hudson's Bay Oil and Gas Company Limited	8,198.40
E.½ 16-48-13-4	Hudson's Bay Oil and Gas Company Limited	3,257.60
S.½ 34-49-13-4	Hudson's Bay Oil and Gas Company Limited	3,257.60
W.½ 17-52-17-4	Canadian Decalta Gas and Oils Limited	17,432.50
E.½ 19-52-17-4	Link & Nauss Ltd.	10,670.00
S.½ 14-46-20-4	The British American Oil Company Limited	204,132.00
N.W.¼ 22-39-22-4	Federated Petroleums Ltd.	77,777.77
N.E.¼ 26-39-22-4	Federated Petroleums Ltd.	77,777.77
S.W.¼ 20-37-23-4	Hudson's Bay Oil and Gas Company Limited	33,899.20
E.½ 6-38-23-4	Imperial Oil Limited	81,321.11
E.½ 24-12-24-4	Gallita Oils Limited	4,030.51
S.½ 2-13-24-4	Gallita Oils Limited	8,736.51
S.W.¼ 18-37-24-4	The British American Oil Company Limited	254.55 98
N.W.¼ 2-62-24-4	Great Plains Development Company of Canada Ltd.	6,047.87
W.½ 3-62-24-4	Great Plains Development Company of Canada Ltd., Sun Oil Company and Sharples Oil (Canada) Ltd.	29,755.26
N.W.¼ 10-62-24-4	Great Plains Development Company of Canada Ltd., Sun Oil Company and Sharples Oil (Canada) Ltd.	9,611.20
E.½ 24-64-25-4	Stanolind Oil and Gas Company	53,200.00
E.½ 25-64-25-4	Stanolind Oil and Gas Company	53,200.00
N.W.¼ 16-44-27-4	Rundle Oils Ltd.	25,666.66
S.½ 20-44-27-4	Canadian Superior Oil of California Ltd.	69,657.00
W.½ 12-38- 3-5	Great Plains Development Company of Canada Ltd.	43,711.47
S.½ 16-39- 3-5	Sun Oil Company	96,342.40
Sec. 12-88-22-5	Union Oil Company of California	8,250.00
N.E.¼ 22-49- 1-4	Husky Oil & Refining Ltd.	808.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted from:	Cash Purchase Price
W. ½ 29-50- 1-4	Husky Oil & Refining Ltd.	2,082.90
All 30-50- 1-4	Porosity Petroleums Ltd.	4,703.00
E. ½ 27-60- 6-4	Porosity Petroleums Ltd.	4,103.00
S. ½ 34-60- 6-4	Yankee Canuck Oil & Mining Corporation Ltd. (No Personal Liability)	6,720.00
All 31-23-12-4	Amurex Oil Development Company and Trans Empire Oils Ltd.	86,553.60
All 5-24-12-4	Amurex Oil Development Company and Trans Empire Oils Ltd.	126,224.00
All 17-24-12-4	Amurex Oil Development Company and Trans Empire Oils Ltd.	22,476.00
N.W. ¼ 20-54-16-4	Imperial Oil Limited	4,363.20
S.E. ¼ 20-54-16-4	Canadian Fina Oil Limited	5,940.00
S.W. ¼ 6-45-19-4	Union Oil Company of California	12,660.00
E. ½ 12-36-20-4	Shell Oil Company	552,640.00
W. ½ 12-36-20-4	Shell Oil Company	712,640.00
E. ½ 36-44-20-4	Imperial Oil Limited	51,050.00
E. ½ 20-46-20-4	Canadian Fina Oil Limited and Triad Oil Company Limited	17,106.00
S. ½ 29-46-20-4	Canadian Fina Oil Limited and Triad Oil Company Limited	75,606.00
N.W. ¼ 32-47-21-4	Imperial Oil Limited	38,961.00
S. ½ 6-48-21-4	Imperial Oil Limited	48,171.00
E. ½ 10-43-22-4	Imperial Oil Limited	68,718.00
W. ½ 10-43-22-4	Imperial Oil Limited	101,188.00
All 5-51-22-4	Texaco Exploration Company	77,000.00
S.W. ¼ 29-37-23-4	Great Plains Development Company of Canada Ltd.	57,777.77
E. ½ 4-62-24-4	Great Plains Development Company of Canada Ltd., Sun Oil Company and Sharples Oils (Canada) Limited	35,654.63
N.E. ¼ 8-62-24-4	Union Oil Company of California	16,126.00
N.W. ¼ 9-62-24-4	Union Oil Company of California	16,126.00
N.W. ¼ 22-35-25-4	Robert E. Humphreys	111,575.13
S.E. ¼ 22-35-25-4	Amurex Oil Development Company	42,668.80
W. ½ 30-35-25-4	Amurex Oil Development Company	85,337.60
S.E. ¼ 30-35-25-4	Amurex Oil Development Company	24,833.60
N.E. ¼ 34-54-25-4	Antone Petroleums Limited	32,055.20
S.E. ¼ 36-54-25-4	Antone Petroleums Limited	55,100.90
L.S. 4 of Sec. 17 and S.E. ¼ 18-54-26-4	Imperial Oil Limited	25,588.00
S.E. ¼ 12-47-28-4	Calvan Consolidated Oil & Gas Company Limited	402,830.00
S. ½ 32-19-29-4	Fred George Humiston	3,360.00
N. ½ 4-20-29-4	Fred George Humiston	4,000.00
S.E. ¼ 4-20-29-4	Fred George Humiston	2,000.00
All 24-18- 2-5	Fred George Humiston	6,400.00
N.W. ¼ 22-41- 2-5	Texaco Exploration Company	202,000.00
N.W. ¼ 34-41- 2-5	Imperial Oil Limited	311,389.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description	Offer Accepted from:	Cash Purchase Price
N.½ 36-42- 2-5	Texaco Exploration Company	426,000.00
N.½ 6-46- 2-5	Hudson's Bay Oil and Gas Company Limited	24,482.67
S.½ 4-34- 3-5	Shell Oil Company	24,075.00
All 17-37- 3-5	Canadian Gulf Oil Company	22,400.00
E.½ 20-37- 3-5	Sun Oil Company	16,811.77
W.½ 20-37- 3-5	Sun Oil Company	16,811.77
S.½ 29-37- 3-5	Calvan Consolidated Oil & Gas Company Limited	32,844.00
E.½ 12-46- 3-5	Amurex Oil Development Company	83,587.20
S.½ 23-46- 3-5	Amurex Oil Development Company	36,064.00
S.W.¼ 3-53- 8-5	Canada-Cities Service Petroleum Corporation	6,720.00
N.W.¼ 23-51-19-5	Richfield Oil Corporation	3,387.20
S.W.¼ 26-51-19-5	Richfield Oil Corporation	3,387.20
N.½ 7-52-19-5	Richfield Oil Corporation	6,774.40
All 18-81-25-5	Winter Oil Company	14,400.00
E.½ 24-72-26-5	The British American Oil Company Limited	33,280.60
E.½ 25-72-26-5	The British American Oil Company Limited	16,128.40
N.E.¼ 4-78-26-5	Canadian Fina Oil Limited	5,300.00
S.½ 4-78-26-5	Hudson's Bay Oil and Gas Company Limited	8,406.40
E.½ 9-78-26-5	Hudson's Bay Oil and Gas Company Limited	8,406.40
		<hr/>
		\$13,999,102.07

PETROLEUM AND NATURAL GAS RESERVATION PURCHASED IN PROVINCIAL RESERVES

Description	Offer Accepted from:	Cash Purchase Price
All Township 3, Range 11, W. 4th Meridian, excepting Section 8 and the S.½ and N.W.¼ of Section 26. The South one-third of Township 4, Range 11, W. 4th Meridian, excepting Section 8. All Township 3, Range 12, W. 4th Meridian, excepting Section 8, N.½ and S.W.¼ of Section 19, S.½ and N.W.¼ of Section 26, Sections 30 and 31—49,120 acres	L. S. Stadler	\$ 35,365.00
		<hr/>
		\$ 35,365.00

CROWN RESERVE NATURAL GAS LICENSES PURCHASED

Description	Offer Accepted from:	Cash Purchase Price
Sections 20 and 30, W.½ of Section 29, W.½ of Section 32 in Township 54, Range 21, W. 4th Meridian; Sections 12, 14, 24 and 34, N.E.¼ of Section 2, E.½ of Section 11, N.E.¼ and S.W.¼ of Section 16, W.½ and Northerly seven-eighths of N.E.¼ of Section 28 in Township 54, Range 22, W. 4th Meridian—5,740 acres.	Mid-Western Industrial Gas Ltd.	\$554,101.50
Sections 16 and 18, W.½ of Section 4 in Township 55, Range 21, W. 4th Meridian; Sections 12, 18, 30, 32 and 34, N.W.¼ and part E.½ of Section 8 outside Settlement, S.E.¼ and part S.W.¼ outside Settlement and part N.E.¼ of Section 14, N.½ and S.W.¼ and part S.E.¼ north of right bank of River of Section 26 and N.½ of Section 36 in Township 55, Range 22, W. 4th Meridian—6,499 acres.	Mid-Western Industrial Gas Ltd.	100,100.50

CROWN RESERVE NATURAL GAS LICENSES PURCHASED

(Continued)

Description	Offer Accepted from:	Cash Purchase Price
N.½ and S.E.¼ of Section 2, Sections 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 17, 18, 21, 22, 29, 30, 31, 32, N.E.¼ of Section 16, W.½ of Section 20, in Township 3, Range 9, W. 4th Meridian; Sections 6, 12, 13, 14, 22, 23, 24, 25, 27, 28, 32, 33, 34, 35, 36, N.E.¼ of Section 26 in Township 3, Range 10, W. 4th Meridian; Sections 1, 2, 3, 4, 5, 6, 7, 9, 10, 17, 18 in Township 4, Range 10, W. 4th Meridian; Sections 13, 14, 15, 16, 17, 18, 19, 20, 30, W.½ of Section 31 in Township 4, Range 11, W. 4th Meridian—36,640 acres.	Canadian-Montana Gas Company Limited	\$ 38,838.00
Sections 6, 7, 18, 19, 30 and 31, N.½ of Section 9, S.½ of Section 16, S.½ of Section 17, N.½ of Section 32, N.½ of Section 33 in Township 36, Range 3, W. 4th Meridian; Sections 4 and 6 in Township 37, Range 3, W. 4th Meridian; Sections 3, 4, 5, 9, 10, 13, 14, 15, 16, 18, 19, 20, 21, 23, 25, 31, 32, 33, 34, 35 and 36, N.½ and S.E.¼ of Section 24, N.E.¼ of Section 26 in Township 36, Range 4, W. 4th Meridian; Sections 1, 2, 5, 6, 10, 15, 21, 22, 23, 24, 28 and 33, W.½ of Section 4, W.½ of Section 7, E.½ of Section 9, E.½ of Section 16, W.½ of Section 18, W.½ of Section 19 in Township 37, Range 4, W. 4th Meridian; S.½ and N.E.¼ of Section 4 in Township 38, Range 4, W. 4th Meridian; Sections 2, 7, 9, 10, 11, 13, 17, 18, 19, 20, 24, 25, 29, 30, 31, 32, 33, 34, 35, 36, W.½ of Section 6 in Township 36, Range 5, W. 4th Meridian—44,000 acres.	Imperial Oil Limited	89,028.11
Sections 4, 5, 6, 7, 18, 20 in Township 36, Range 1, W. 4th Meridian; Sections 4, 5 and 6, W.½ of Section 18 in Township 37, Range 1, W. 4th Meridian; Sections 5, 6, 7, 9, 10, 11, 12, 15, 18, 19, 22, 23, 24, 25, 28, 29, 30, 33 and 36, W.½ of Section 31 in Township 36, Range 2, W. 4th Meridian; Sections 2, 4, 6, 11, 12, 14, 18, 22, 24, 34 and 36, E.½ of Section 10, N.½ of Section 16 and N.E.¼ of Section 26 in Township 37, Range 2, W. 4th Meridian; Sections 1, 2, 3, 10, 11, 12, 14, 23, 25, 35 and 36, S.½ of Section 15, N.E.¼ of Section 26, N.½ of Section 34 in Township 36, Range 3, W. 4th Meridian; Sections 2 and 3 in Township 37, Range 3, W. 4th Meridian—35,520 acres.	Imperial Oil Limited	72,017.12
Sections 4, 6, 16, 18, 20 and 30 in Township 50, Range 18, W. 4th Meridian; Sections 6, 18, 30 and 32, S.E.¼ of Section 31 in Township 51, Range 18, W. 4th Meridian; Sections 2, 11, 12, 14 and 36 in Township 50, Range 19, W. 4th Meridian—9,760 acres.	Calvan Consolidated Oil & Gas Company Limited	21,163.00
Sections 4, 5, 6, 7, 8, 9, 10, 22, 24, 31, 32 and 33, S.½ of Section 2, W.½ of Section 19, N.E.¼ of Section 26 and W.½ of Section 30 in Township 52, Range 19, W. 4th Meridian; Sections 4, 6, 14, 22 and 24, W.½ of Section 18 in Township 53, Range 19, W. 4th Meridian; Sections 4, 9, 13, 14, 15, 16, 23 and 24; S.E.¼ of Section 1 and those portions of Sections 21 and 22 lying South of Elk Island Park in Township 52, Range 20, W. 4th Meridian—18,860 acres.	Great Plains Development Company of Canada Ltd.	74,119.87 \$949,368.10

Reservations.—During the fiscal year 219 reservations were issued covering an area of 9,157,312 acres and at the close of the year 631 reservations were active containing an area of 35,539,861 acres.

The revenue from reservation fees amounted to \$52,000.00, for extending reservations amounted to \$5,028,916.47, and the revenue from bonuses accepted by the Director of Mineral Rights at sales of petroleum and natural gas reservations by tender amounted to \$1,806,852.19.

During the period under review two Orders in Council were passed amending the Petroleum and Natural Gas Reservation Regulations, the first of which was Order in Council numbered O.C. 632/52 dated May 5, 1952 which provided that if an application to the Board of Arbitrators pursuant to the provisions of section 11 of the regulations is submitted before the end of the last renewal period obtained pursuant to section 10 an extension of any or all of the renewals obtained pursuant to section 10 may be granted. This provided that a reservation holder could make application for all of the extensions to which he would be entitled at one hearing of the Board of Arbitrators.

Order in Council numbered O.C. 1707/52 dated December 1, 1952, provided that leases selected in reservations in unsurveyed territory may now be selected in the same manner as leases selected in reservations in surveyed territory.

In order that those having previously selected leases out of reservations in unsurveyed territory might have the same privileges as conferred on areas under reservation by Order in Council numbered O.C. 1707/52, Order in Council numbered O.C. 1778/52 was passed on December 8, 1952. Reselection of leases was made by twenty-five holders of petroleum and natural gas leases in unsurveyed territory pursuant to the provisions of Order in Council numbered O.C. 1778/52.

Credit of not in excess of 50 per cent of the approved expenditures incurred in geophysical examinations including drilling on petroleum and natural gas reservations may apply to the rental for one year of any lease or leases acquired out of the reservation and during the fiscal year under review rentals due the Province amounting to \$5,749,019.95 were satisfied from such expenditures.

Natural Gas Licenses.—Fourteen natural gas licenses covering an area of 529,288 acres were issued during the fiscal year and at the close of the year 39 licenses were active containing an area of 1,730,617 acres. The revenue from fees was \$4,250.00 and from rentals and extension charges \$112,943.55.

Crown Reserve Natural Gas Licenses.—Seven Crown reserve natural gas licenses covering an area of 157,019 acres were issued during the fiscal year. At the close of the year seven licenses were active. The revenue from fees was \$1,750.00 and from rentals and extension charges \$7,850.95.

COAL

In the fiscal year, 37 leases were issued containing 8,414 acres, being made up of new and renewal and second-renewal leases. There are now 616 active leases comprising 174,549 acres. There were 19 road allowance coal mining leases issued and there are now 129 active. The revenue received from fees was \$640.00 and from lease rentals \$175,535.24.

Crown royalties collected during the fiscal year were \$379,492.51 and the following tonnage of coal subject to royalty was mined:

	Tons
Coal Leases	3,621,824
Coal Lands and Mineral Sales	1,080,711
TOTAL	4,702,535

QUARRYING

Six quarrying leases comprising a total of 511 acres were issued during the fiscal year under review, two of which were for the removal of limestone, two for clay and two for bentonite.

Extraction of 681,856 tons of limestone and shale from Crown leases was reported and at the close of the fiscal year 21 quarrying leases containing an area of 2,523 acres were active.

BITUMINOUS SANDS

Thirteen bituminous sands prospecting permits were issued in the Athabaska oil sands area during the fiscal year, each comprising approximately 50,000 acres. Core testing operations were conducted in the area and several of the larger permit holders are continuing extensive research programs in their laboratories.

The bituminous sands prospecting permit in the vicinity of Bitumont was renewed for a further year and the lease in the Mildred and Ruth Lake area is still in force.

QUARTZ

Three hundred and twenty-one new claims were recorded during the year, while only 40 were issued the previous year. Most of these claims were concentrated in the Leland Lake area in the extreme northeast corner of the Province. The search for uranium is chiefly responsible for the greatly increased number of quartz claims recorded. Twenty-three existing claims were continued for a further year.

PLACER

Twelve placer claims were recorded and two were renewed for another year. No recovery of gold was reported during the year.

SODIUM CHLORIDE (Common Salt)

During this fiscal year only the plant near Lindbergh operated and the reported extraction was 24,406 tons, an increase of 3,922 tons over the previous year.

SULPHUR

The sulphur prospecting permit issued to Bradley Oil Corporation Ltd. was renewed and the Holdings Administrators Ltd. permit was cancelled during this year.

Sulphur was first produced from the plant at Jumping Pound in February, 1952, and 1,248 short tons were produced in February and March. For the fiscal year ending March 31, 1953, 6,563 short tons were produced at the Jumping Pound plant.

Sulphur was first produced from the plant at Turner Valley in July, 1952. For the fiscal year ending March 31, 1953, 5,273 short tons were produced at the Turner Valley plant.

Total sulphur production for Alberta for the fiscal year ending March 31, 1953, amounted to 11,836 short tons.

SPECIAL PERMITS

The permit for the collection of bitumen issuing from an old well in the Peace River district was again renewed. Collection of 524 gallons was reported during the year under review.

DRILLING STATISTICS

The drilling and production of petroleum and natural gas wells in the Province are administered by The Petroleum and Natural Gas Conservation Board, 514 Eleventh Avenue West, Calgary, Alberta and particulars as to drilling activity, production and statistical data are included in weekly, monthly and annual reports issued by the Board.

STAFF

During the year Mr. J. W. Patrick succeeded Mr. H. H. Somerville as Director of the Division when Mr. Somerville was named the Deputy Minister of the Department. Mr. Patrick joined the Department of Lands and Mines in May, 1931, and on March 31, 1949, when the Department of Lands and Mines was divided into two new Departments, namely Department of Mines and Minerals and Department of Lands and Forests, he was the Secretary Accountant of the old Department. For the last three years he has been the Secretary of The Petroleum and Natural Gas Conservation Board.

Mr. William Roy, formerly Chief Clerk of the Mines Branch replaced Mr. William McGeachie as Chief Correspondence Clerk. Mr. McGeachie accepted a position with the Mineral Taxation Division.

The staff of the Mineral Rights Division numbered 44 employees at the close of the fiscal year and did excellent work during the year.

Mineral Taxation Division

Report of the Chief Assessor

E. F. GILKER

The continued activity in the development of petroleum and natural gas resources in Alberta resulted in seventeen new producing areas being brought under assessment during the calendar year of 1952. These new producing areas with the principal mineral involved and the assessed value for 1952 follow:

Producing Area	Parcels Assessed	Principal Mineral	Assessed Value
Armena	14	Petroleum	\$1,026,627.56
Armisie	7	Petroleum	311,933.36
Bashaw	2	Petroleum	174,956.69
Big Valley	2	Petroleum	595,863.54
Bon Accord	2	Petroleum	61,244.68
Camrose	2	Petroleum	8,120.00
Duhamel	2	Petroleum	332,495.07
Ellerslie	5	Petroleum	77,675.78
Excelsior	5	Petroleum	1,147,187.45
Fenn	2	Petroleum	158,960.65
Glen Park	1	Petroleum	100,120.00
Joseph Lake	7	Petroleum	1,666,285.29
Jumping Pound	57	Natural Gas	909,951.72
Namao	2	Petroleum	30,793.59
New Norway	33	Petroleum	166,497.52
Stettler	8	Petroleum	1,062,933.12
Wizard Lake	4	Petroleum	1,242,217.64

Other producing areas of the Province designated by Ministerial Order and assessed in previous years were again included in the assessment roll for the year 1952 and these are also enumerated:

Producing Area	Parcels Assessed	Principal Mineral	Assessed Value
Acheson	14	Petroleum	\$ 4,060,288.20
Campbell	7	Petroleum	119,227.02
Conrad	1	Petroleum	18,753.47
Leduc-Woodbend	148	Petroleum	31,273,964.91
Lloydminster	24	Petroleum	970,740.20
Medicine Hat - Redcliff	110	Natural Gas	409,240.05
Redwater	15	Petroleum	11,594,463.81
Taber	1	Petroleum	26,455.98
Turner Valley	71	Petroleum and Natural Gas	9,230,667.66
Viking-Kinsella	386	Natural Gas	1,719,728.71
Whitemud	1	Petroleum	46,628.10
Cascade	20	Coal	68,609.78
Crowsnest-Pincher	279	Coal	435,085.64
Lethbridge	116	Coal	119,321.21

In addition to the foregoing designated by the Minister as producing areas, provision is also made for the assessment of any quarter section, river lot or other parcel on which a mine or well is located or that is situate within five-eighths of a mile of a mine or well. The assessment of these areas involved 478 parcels and the principal minerals assessed were petroleum, natural gas and coal with an assessed value of \$994,633.32.

The parcels assessed are the number of items appearing on the assessment roll and each parcel relates to the area contained in a

certificate of title. In determining the assessed value of a parcel each spacing unit on which a well has been brought into production is calculated separately; consequently, several calculations must be made in arriving at the assessment for petroleum in a parcel containing minerals in a section of land.

The acreage tax of one and one-half cents an acre was continued in 1952 and the mill rate on the assessed value was again set at eight mills.

The total revenue from the taxation of minerals from the enactment of the statute in 1941 until March 31, 1949 collected by the Department of Lands and Mines was \$1,921,180.47 and revenue collected by the Department of Mines and Minerals from April 1, 1949 is shown in the following tabulation:

Year	Mill Rate	Producing	Tax Per Acre	Acreage Tax	Fees	Total
1949-1950	8	\$452,838.16	1½c	\$297,883.10	\$286.50	\$ 751,007.76
1950-1951	8	526,029.61	1½c	307,185.71	511.00	833,092.23
1951-1952	8	444,293.91	1½c	323,185.71	2320.10	769,799.72
1952-1953	8	572,671.45	1½c	310,285.08	3204.00	886,160.53
						<hr/> \$3,240,060.24

For a fee of fifty cents anyone may obtain a mineral tax certificate on a parcel showing the tax, if any, in arrears, and during the fiscal year 6,408 certificates were issued.

GEOPHYSICAL EXPLORATION

Licenses are issued to applicants who desire to undertake geophysical or subsurface geological exploration. A total of 273 were issued from April 1, 1952 to March 31st, 1953. These licenses expire on March 31st following the date of issue and may be renewed.

Before anyone can operate geophysical equipment a permit must be obtained and 106 were issued during the fiscal year. Permits expire one year after the effective date and may be renewed from year to year.

A fee of twenty-five dollars is required for a geophysical license or permit.

Regulations governing geophysical exploration and exploratory operations for minerals were established by Order in Council dated January 28th, 1952, and numbered O.C. 122/52. Enforcing these regulations is a staff of investigators with clerical and stenographic assistance.

The regulations provide for the appointment of inspectors. These include governmental officers and such other persons as may be appointed by the Minister of Lands and Forests, all members of the Royal Canadian Mounted Police and the Reeve, Secretary and Councillors of each Municipal District. Prior to the commencement of any clearing, ditching or grading work the operator must ascertain from the Technical Division of the Department of Lands and Forests the location of survey monuments in the vicinity of the proposed work and he must mark conspicuously the location of each monument by a flag attached to the top of a pole at least five

feet from the ground and take such other precautions as may be necessary to insure that no monument is defaced, altered, disturbed or damaged during the course of work.

While certain sections of the regulations deal mainly with the Department of Lands and Forests, other sections deal with the Department of Mines and Minerals. Before the operator can undertake geophysical exploration either by seismic, gravimetric, magnetic, electrical, geochemical, test drilling or any other method which may be used for the purpose of investigating the subsurface, the permit is acquired. The number of the permit must be legibly marked on all pieces of automotive equipment.

The permit number is for ready identification of any crew observed to be interfering with the rights of property owners or occupants. A metal tag on which the permit number has been imprinted must be left at each hole drilled or shot which serves to identify the crew responsible for such hole. Provision is also made in the regulations for the minimum distances that shot holes and core holes must be located from buildings, water wells, gateways, driveways and other improvements. No operations can be conducted within the limits of a city, town or village without the consent of the city, town or village being first had and obtained, and a copy of the consent shall be supplied immediately to the Department.

Each operator must file with the Department every month a plan in triplicate showing the location of all trails made or constructed, roadways which have been used and the identifying number and location of each shot hole, test hole or core hole made during the preceding month, and these are recorded in this Department and the Department of Lands and Forests.

The investigators for the Department are called upon to investigate and report on complaints received by the Department from owners or tenants of land where damage seems to have been caused to water wells, crops, fences and other improvements. Upon a complaint being reported to the Department verbally or by correspondence, an investigation is made at the earliest possible date to determine if the damage has been caused by geophysical operations and when necessary endeavour to effect a settlement by the crew responsible. The Department has had cooperation from geophysical operators in dealing with these complaints.

Technical Division

Report of the Superintendent of the Technical Division

H. B. GROVE

The following report summarizes the operations of the Technical Division for the year under review.

DRAUGHTING, LEGAL DESCRIPTIONS AND GENERAL

During the year a map of the Province on a scale of one inch to sixteen miles, showing oil and gas fields and main pipelines was prepared and published. Due to the number of new fields that were being discovered it was decided to draw the map on tracing cloth and distribute ozalid copies rather than publish a lithographed map. Consequently an up-to-date map is available to the public.

An accurate drawing for the purpose of colour reproduction was prepared by this Division for a four-colour folder, 8½"x14", entitled "Alberta Oil Picture, 1947-1951". The folder illustrates graphically the development of the petroleum and natural gas industry in the Province, the disposition of Crown petroleum and natural gas rights and the revenue to the Province through leases, sales, rental and royalty.

To facilitate the recording of the large number of quartz-mining claims in the northeast corner of the Province a map was prepared on a scale of one-half inch to the mile of the district north of Lake Athabasca and east of Slave River. The map is revised as new claims are recorded and old claims lapse in order that ozalid copies showing current information may be supplied to the public.

The following maps of fields and their adjacent areas, drawn to a scale of two inches to one mile, showing well locations and status of wells were published.

Map	Area Covered
Bonnie Glen	—North two-thirds of Township 44, Townships 45, 46, and 47, and the South one-sixth of Township 48, in the West five-sixths of Range 27, Range 28, West of the 4th Meridian, and Range 1, West of the 5th Meridian.
Armena-Camrose & South Camrose	—North two-thirds of Township 46, Townships 47 and 48, South half of Township 49, in the West five-sixths of Range 20, Range 21, and the East half of Range 22, West of the 4th Meridian.
Malmö	—Township 43 and South two-thirds of Township 44, in the West one-third of Range 20, Ranges 21 and 22, West of the 4th Meridian.
Drumheller	—Township 29 and South two-thirds of Township 30, in the West one-third of Range 18, Ranges 19 and 20, West of the 4th Meridian.

West Drumheller —Township 29 and South two-thirds of Township 30, in the West one-sixth of Range 20, Ranges 21, 22, and the East one-sixth of Range 23, West of the 4th Meridian.

Lloydminster —North two-thirds of Township 48, Townships 49, 50, 51 and South one-sixth of Township 52 in Ranges 1, 2 and the East one-third of Range 3, West of the 4th Meridian.

The map of the Stettler field was redrawn and extended to cover the Fenn field and now covers Townships 36, 37, 38, the South five-sixths of Township 39, in the West two-thirds of Range 19, Range 20 and the East two-thirds of Range 21, West of the 4th Meridian.

A total of 1,730 maps were distributed for sale to the public and for departmental use, which is a decrease of 986 from the 2,716 distributed in the previous year.

The number of subscribers to the weekly service which entitles a subscriber to a sketch of each new reservation issued and each reservation amended, cancelled or converted to lease increased from 47 to 48 and over 28,000 copies of sketches were prepared and mailed showing an increase of approximately 6,000 over last year's total.

During the year 1,695 applications for a license to drill a well were recommended to the Department by the Petroleum and Natural Gas Conservation Board, which is an increase of 143 over the 1,552 applications dealt with in the previous year. The Division, upon receipt of each application, determined the ownership of the minerals in the spacing unit allotted to the well.

Legal descriptions were prepared for 56 coal-mining and road allowance leases, 5,901 petroleum and natural gas leases, 219 petroleum and natural gas reservations, 14 natural gas licenses, seven Crown reserve natural gas licenses, six quarrying leases and eight notifications as well as descriptions for recommendations to council, making a total of over 6,200, which is a decrease of 500 in comparison to the previous year.

The Technical Division, Department of Lands and Forests, continued to efficiently supply the photostat and ozalid prints required by this Department.

In February, 1953 a multigraph duplicator machine was installed in the Division primarily to facilitate the reproduction of petroleum and natural gas reservation and lease selection sketches for distribution to the subscribers to the service. A total of 135 multilith masters were typed from which 40,895 copies were reproduced. Prior to February 585 mimeographed stencils were cut and 135,670 copies run off. These totals represent an increase of 330 stencils and masters and 76,865 copies over the previous year.

The map of Alberta showing the area covered by all petroleum and natural gas reservations to March 31, 1952 has been revised to indicate the area of reservations issued during the present year, and is included in this report. The map is of value in illustrating the portion of the Province which has been and is being explored for oil and gas by approved geological or geophysical means or by






MAP OF ALBERTA

SHOWING AREAS FOR WHICH
PETROLEUM AND NATURAL GAS
RESERVATIONS
HAVE BEEN ISSUED

SCALE 0 10 20 30 40 50 MILES

— LEGEND —

-  RESERVATIONS ISSUED PREVIOUS TO APRIL 1, 1952
-  RESERVATIONS ISSUED FROM APRIL 1, 1952 TO MARCH 31, 1953.
-  PROVINCIAL RESERVES

the drilling of wells. However, there are freehold areas lying to the south of Drumheller and to the south of Lethbridge as well as Indian Reserves and National Parks for which this Division has no information regarding exploration for petroleum and natural gas.

The search for uranium in the northeast corner of the Province has sharply increased the recording of quartz claims and added considerably to the work of the draughting staff. The plan attached to each of the 321 applications received was examined and, if satisfactory, plotted in the departmental township record and on the tracing of the small map of the district north of Lake Athabasca and east of Slave River.

The recent oil and natural gas discoveries in the Province have resulted in a tremendous increment in the value of our mineral acreage. This has greatly increased the importance of the Department's records of Crown minerals, of which the majority were compiled previous to the discovery of oil at Leduc and therefore the Division has undertaken a comparison of our records with the original patents filed in the North and South Alberta Land Registration Districts. In this respect 15,000 patents covering ranges 1 to 4 inclusive have been examined.

RECORDS

In addition to the work completed as shown in the tables hereunder, the Records Branch of the Division supplied 13,362 township plots to the public indicating available Crown minerals and also plots showing the status of Crown mineral rights compared to 22,641 distributed in the previous year.

*DISPOSITIONS, CANCELLATIONS AND ASSIGNMENTS RECORDED IN THE TOWNSHIP REGISTERS

	1951-52	1952-53
Coal Mining Leases	173	113
Petroleum and Natural Gas Leases	7,130	7,138
Petroleum and Natural Gas Reservations	569	530
Natural Gas Licenses	49	24
Crown Reserve Natural Gas Licenses		7
Quarrying Leases	57	8
Notifications	11	8
Assignments	2,978	4,440
Bituminous Sands Prospecting Permits	1	15
Quartz Claims	59	344
Placer Claims	11	15
TOTAL	11,038	12,642

*Includes issued, reinstated, divided, renewed and certificates of work.

ASSIGNMENTS REGISTERED

	1951-52	1952-53
Petroleum and Natural Gas	2,860	4,321
Natural Gas Licenses	3	4
Coal	110	109
Quarrying	3	5
Salt	1	
Sulphur Prospecting Permit	1	
Geophysical License		1
TOTAL	2,978	4,440

DOCUMENTS FILED

	1951-52	1952-53
Mechanic's Liens	27	43
Miscellaneous Documents	1
TOTAL	28	43

FILING

A comparison of the filing activity during the year under review and the previous year is shown on the following schedule of files cancelled and new files opened.

FILES CANCELLED AND NEW FILES OPENED

	Opened 1951-52	Cancelled 1951-52	Opened 1952-53	Cancelled 1952-53
Leases, Reservations, Permits, etc.	6,421	2,068	7,560	1,854
Company	94	174
Coal Royalty	14	8	37
General	172	141
Alienated	32	69
School Lands	6	1
Mining Land Deposits	152	97	100
Unit	1
Farm Gas Wells	4
Structure Tests	6	9
Water Wells	2	15
Petroleum and Natural Gas Royalty	564	491
Unearned Increment Tax	67	186	1
Battery	177	67
Group	5	11
Mining Land Oil Purchase	4	5
Geophysical Licenses	245	5	281
Geophysical License Deposits	18	24	3
Permits to Operate Geophysical Equipment	144	6
TOTAL	7,978	2,087	9,312	1,964

NOTIFICATIONS FOR ISSUE OF CERTIFICATE OF TITLE

Eight notifications were issued, mainly completing exchanges of minerals with freehold owners to bring about more orderly development of mineral resources held by the Crown and the freehold owners.

Of eight notifications issued, five granted all minerals except coal, gold and silver, one granted petroleum and natural gas and two granted coal only.

During the four years of the operation of the Department, forty-one notifications for minerals have been issued.

REVESTED MINERALS

During the year the Minister of Mines and Minerals received title to minerals in 224 parcels, seven being through exchange of minerals, two through voluntary transfers and 215 through non-payment of mineral tax.

As of March 31, 1953, the total acreage contained in titles to a mineral or minerals revested to the Crown in the right of the Province of Alberta as represented by the Minister of Mines and Minerals was 1,379,973.875. A breakdown of this figure showing the acreage of the major minerals follows:

SCHEDULE OF REVESTED MINERALS

	Petroleum, Acres	Natural Gas, Acres	Coal, Acres	Other Min- erals, Acres
Voluntary Transfer as on March 31, 1952	23,368.31	78,168.65	708,942.35	90,260.05
From April 1, 1952, to March 31, 1953	Nil	320.00	320.00	320.00
	<u>23,368.31</u>	<u>78,488.65</u>	<u>709,262.35</u>	<u>90,580.05</u>
Non-Payment of Mineral Tax as on				
March 31, 1952	85,100.98	266,637.99	39,962.71	286,867.11
From April 1, 1952, to March 31, 1953	5,798.985	37,438.735	5,581.125	40,089.465
	<u>90,899.965</u>	<u>304,076.725</u>	<u>45,543.835</u>	<u>326,956.575</u>
Revested other than Voluntary Transfer				
and Non-Payment of Mineral Tax as				
on March 31, 1952	200,423.93	213,299.21	127,033.14	214,817.38
From April 1, 1952, to March 31, 1953	188.58	188.58	125.58	125.58
	<u>200,612.51</u>	<u>213,487.79</u>	<u>127,158.72</u>	<u>214,942.96</u>
Total as on March 31, 1952	308,893.22	558,105.85	875,938.20	591,544.54
Increase	5,987.565	37,947.315	6,026.705	40,535.045
Total as on March 31, 1953	<u>314,880.765</u>	<u>596,053.165</u>	<u>881,964.905</u>	<u>632,497.585</u>

Accounting Division

Report of the Administrative Accountant and Personnel Officer

W. E. SHILLABEER

A surplus of \$57,828,793.12 on Income Account was shown for the fiscal year ending March 31st, 1953.

Net Revenue on Income Account amounted to \$58,570,088.49.

Gross receipts from all sources amounted to \$66,846,858.88.

Expenditure on Income Account for the year amounted to \$741,295.37. Particulars of expenditure may be found in Statement "C".

As at March 31st, 1953, there were 26,120 Accounts Receivable as compared with 20,909 as at March 31st, 1952. The number of active accounts as at March 31st, 1953, is made up as follows:

	No. of Accounts
Petroleum and Natural Gas Leases, Rental	21,188
Petroleum and Natural Gas Leases, Royalty	803
Petroleum and Natural Gas Reservations	642
Natural Gas Licenses	39
Coal Leases, Rental	731
Coal Leases, Royalty	198
Mineral Tax (Producing Area)	2,058
Registration of Assignment Tax	384
Mining Leases (Miscellaneous)	77
	<hr/>
	26,120

There were 1,701 accounts cancelled, closed, transferred or paid in full and 6,912 accounts opened.

INDEX TO STATEMENTS

- A.—Statement of Receipts from all Sources.
- B.—Statement of Receipts—Income Account.
- C.—Statement of Expenditure by Appropriation and Character.
- D.—Statement of Net Receipts by Divisions.
- E.—Statement of Receipts—School Lands.
- F.—Statement of Receipts and Expenditures.
- G.—Statement of Provincial Land Revenue by Fiscal Years
Received by the Province for the Period April 1st, 1949 to
March 31st, 1953.
- H.—Statement of School Minerals Revenue by Fiscal Years
Received by the Province for the Period April 1st, 1949 to
March 31st, 1953.

STATEMENT A

STATEMENT OF RECEIPTS FROM ALL SOURCES

From April 1st, 1952 to March 31st, 1953

	Gross Receipts	Refunds	Net Receipts
Income Account	\$58,641,452.21	\$ 71,363.72	\$58,570,088.49
Reimbursement of Previous Year's Expenditure	6,348.43	6,348.43
Unapplied Receipts Carried Forward (Subject to Refund)
Suspense	8,199,058.24	7,202,375.85	996,682.39
	<u>\$66,846,858.88</u>	<u>\$7,273,739.57</u>	<u>\$59,573,119.31</u>

STATEMENT B

STATEMENT OF RECEIPTS—INCOME ACCOUNT

From April 1st, 1952 to March 31st, 1953

INCOME ACCOUNT:

MINING LANDS:

Gross Receipts Refunds Net Revenue

Coal Rentals, Fees, etc.	\$ 171,903.41	\$ 1,616.79	\$ 170,286.62
Coal Royalties	354,123.99	354,123.99
Coal Mines Act Sundry Revenue	4,541.05	15.00	4,526.05
Petroleum and Natural Gas Rentals, Fees, etc.	18,262,055.61	25,585.37	18,236,470.24
Petroleum and Natural Gas Royalties	12,353,953.93	8.29	12,353,945.64
Crown Reserve Sales	19,698,051.58	39,045.95	19,659,005.63
Mining Miscellaneous	116,491.94	3,352.29	113,139.65

SCHOOL LANDS:

Coal Rentals, Fees, etc.	5,888.62	5,888.62
Coal Royalties	25,368.52	25,368.52
Petroleum and Natural Gas Rentals, Fees, etc.	1,446,366.57	492.00	1,445,874.57
Petroleum and Natural Gas Royalties	1,157,006.02	1,157,006.02
Crown Reserve Sales	3,868,438.03	3,868,438.03
Mining Miscellaneous	1,900.05	1,900.05

MINERAL TAXATION ACT:

Mineral Tax	886,912.89	752.36	886,160.53
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REGISTRATION OF ASSIGNMENT TAX	204,399.55	180.67	204,218.88
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MISCELLANEOUS (Casual)	84,050.45	315.00	83,735.45
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TOTAL INCOME ACCOUNT

(Carried to Statement A)	<u>\$58,641,452.21</u>	<u>\$71,363.72</u>	<u>\$58,570,088.49</u>
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STATEMENT D

STATEMENT OF NET RECEIPTS BY DIVISIONS

For Fiscal Year Ending March 31st, 1953

INCOME ACCOUNT:

Mineral Rights Division	\$57,595,666.46
Mineral Taxation Division	886,160.53
Mines Division	4,526.05
Miscellaneous (Administration Sundry Revenue, Reimbursements, etc.) ..	83,735.45

TRANSFERRED TO OTHER DEPARTMENTS	6,348.43
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UNAPPLIED RECEIPTS CARRIED FORWARD:

Suspense	996,682.39
	<u>\$59,573,119.31</u>

STATEMENT E

STATEMENT OF RECEIPTS—SCHOOL LANDS

From April 1st, 1952 to March 31st, 1953

INCOME ACCOUNT:

	Receipts	Refunds	Net Revenue
Coal Rentals, Fees, etc.	\$ 5,888.62	\$	\$ 5,888.62
Coal Royalties	25,368.52	25,368.52
Petroleum and Natural Gas Rentals, Fees, etc.	1,446,366.57	492.00	1,445,874.57
Petroleum and Natural Gas Royalties	1,157,006.02	1,157,006.02
Crown Reserve Sales	3,868,438.03	3,868,438.03
Mining Miscellaneous	1,900.05	1,900.05
	<u>\$6,504,967.81</u>	<u>\$492.00</u>	<u>\$6,504,475.81</u>

STATEMENT F

STATEMENT OF RECEIPTS AND EXPENDITURE

For Fiscal Year Ending March 31st, 1953

Gross Receipts	Refunds	Net Receipts	Net Revenue on Income Account	Total Expenditures from Appro- priations	Surplus on Income Acct.
\$66,846,858.88	\$7,273,739.57	\$59,573,119.31	\$58,570,088.49	\$741,295.37	\$57,828,793.12

STATEMENT G

STATEMENT OF PROVINCIAL LAND REVENUE BY FISCAL YEARS
RECEIVED BY THE PROVINCE FOR THE PERIOD APRIL 1st, 1949
TO MARCH 31st, 1953

	1949-50	1950-51	1951-52	1952-53	Total
Coal					
Fees and Rentals.....\$	185,412.49	\$ 174,035.27	\$ 211,582.89	\$ 170,286.62	\$ 741,317.27
Royalties.....	600,493.96	577,667.84	394,441.24	354,123.99	1,926,727.03
Sundry Revenue.....	6,183.50	5,335.30	5,209.45	4,526.05	21,254.30
Petroleum and Natural Gas					
Fees and Rentals.....	5,741,111.95	9,034,896.06	14,134,672.25	18,236,470.24	47,147,150.50
Royalties.....	3,368,918.86	4,760,569.46	10,062,772.17	12,353,945.64	30,546,206.13
Crown Reserve Sales..	23,180,998.77	28,008,052.42	12,517,931.33	19,659,005.63	83,365,988.15
Salt					
Fees and Rentals.....	564.00	3,129.00	1,005.60	1,005.60	5,704.20
Royalties.....	2,024.92	9,230.96	4,895.32	6,806.71	22,957.91
Quarrying					
Fees and Rentals.....	1,019.31	1,176.72	291.28	227.23	2,714.54
Royalties.....	29,939.08	36,486.29	27,908.36	29,309.75	123,643.48
Sand and Gravel					
Fees and Royalties.....	7,665.35	10,287.45	17,952.80
Quartz					
Fees and Royalties.....	377.56	630.00	853.47	3,826.17	5,687.20
Placer and Bar Diggings					
Fees and Royalties.....	325.08	42.79	30.00	397.87
Bituminous Sands					
Fees, Rentals and Royalties.....	13,350.28	7,173.20	7,173.20	52,480.95	80,177.63
Miscellaneous Leases					
Fees, Rentals and Royalties.....	24,766.31	43,253.19	15,949.78	19,453.24	103,422.52
Mineral Tax					
Non-Producing Area Tax.....	297,883.10	307,062.62	323,185.71	310,285.08	1,238,416.51
Producing Area Tax...	452,838.16	526,029.61	444,293.91	572,671.45	1,995,833.13
Certificate Fees.....	286.50	511.00	2,320.10	3,204.00	6,321.60
Registration of As- signment Tax	185,833.42	73,245.56	283,749.67	204,218.88	747,047.53
Administration Sun- dry Revenue	21,915.60	34,734.13	61,946.42	83,735.45	202,331.60
Total	<u>\$34,121,583.12</u>	<u>\$43,613,831.16</u>	<u>\$38,500,224.94</u>	<u>\$52,065,612.68</u>	<u>\$168,301,251.90</u>

EXPENDITURE CLASSIFIED BY APPROPRIATIONS AND CHARACTER
FOR THE YEAR ENDED MARCH 31st, 1953
INCOME ACCOUNT

SERVICE	2001 Minister's Office	2002 Deputy Minis- ter's Office	2003 Accounts Division	2004 Advisory Board	2005 Geological Division	2006 Mines Division	2007 Mineral Rights Division	2008 Mineral Taxa- tion Division	2009 and S.W.74 Petroleum and Natural Gas Cons. Board	2010 Technical Division	2011 Postage	2012 Printing, Stationery and Office Supplies	2013 Administration Gas Resources Preservation Act	2014 Right of Entry Arbitration Board	2015 Supervisory and Safety Training Programme	TOTAL
Advertising.....	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Automobiles.....		1,893.56				470.62	5,442.17	2,069.80								5,442.17
Books and Binding.....		458.89	18.40			88.20		83.14		346.55						4,433.98
Equipment.....		173.17	882.08					158.22		2,867.28				879.53		1,329.66
Examinations.....						1,136.80										6,395.65
Fees and Commissions.....																1,136.80
Freight, Express and Cartage.....		1.50	12.52		1.50	205.43	335.52	6.66		18.03						581.16
Grants.....								30,459.75							10,000.00	40,459.75
Legal Fees and Expenses.....													1,526.80			1,526.80
Miscellaneous Supplies and Expenses.....	303.78	34.21	100.24		.35	60.08	526.07	268.77	213,789.62	13,164.42			3,500.54	20.82		231,768.90
Newspapers and Periodicals.....		136.94	3.00			12.92	34.95	6.00						34.50		228.31
Postage.....						143.22					6,293.65			438.07		6,874.94
Printing and Stationery.....	19.82					3,396.72						20,477.74	25.88	502.22		24,422.38
Rates, Rentals and Insurance.....		55.33				99.57		128.57						71.07		354.54
Repairs and Replacements.....		203.43	353.69			301.43	413.65	246.29		215.97				273.88		2,008.34
Salaries.....	2,981.16	24,215.75	56,076.27			58,286.54	101,582.53	47,478.27		73,757.78				24,425.29		388,803.59
Special Services.....		71.30				12.75										84.05
Telegrams and Telephones.....		552.91	34.55		2.15	360.04	1,366.08	768.86	106.10	168.40				124.41		3,483.50
Travelling Expenses.....	91.25	1,959.85	100.00	77.21	276.74	8,621.63	2,410.23	5,635.80		2,031.08				757.06		21,960.85
TOTAL: Income Account.....	\$3,396.01	\$29,756.84	\$57,580.75	\$ 77.21	\$280.74	\$73,195.95	\$113,881.05	\$87,310.13	\$213,895.72	\$92,569.51	\$6,293.65	\$20,477.74	\$5,053.22	\$27,526.85	\$10,000.00	\$741,295.37

CAPITAL ACCOUNT

SERVICE	2080 Abandonment of Mining Properties	TOTAL
Contract Labour	\$6,687.68	\$6,687.68
TOTAL: Capital Account	\$6,687.68	\$6,687.68

STATEMENT H

STATEMENT OF SCHOOL MINERALS REVENUE BY FISCAL YEARS
RECEIVED BY THE PROVINCE FOR THE PERIOD APRIL 1st, 1949
TO MARCH 31st, 1953

	1949-50	1950-51	1951-52	1952-53	Total
Coal					
Fees and Rentals.....	\$ 6,313.28	\$ 6,965.91	\$ 3,761.05	\$ 5,888.62	\$ 22,928.86
Royalties.....	51,074.51	45,643.83	42,969.61	25,368.52	165,056.47
Petroleum and Natural Gas					
Fees and Rentals.....	514,065.59	744,745.23	1,245,877.55	1,445,874.57	3,950,562.94
Royalties.....	242,199.47	429,423.19	975,317.20	1,157,006.02	2,803,945.88
Crown Reserve Sales..	50,449.43	1,072,579.97	693,357.64	3,868,438.03	5,684,825.07
Sand and Gravel					
Fees and Royalties.....			2,752.10		2,752.10
Bituminous Sands					
Fees, Rentals and Royalties.....	1,845.00	565.00	565.00	892.05	3,867.05
Miscellaneous Leases					
Fees, Rentals and Royalties.....		3,896.01	1,016.05	1,008.00	5,920.06
Total.....	\$865,947.28	\$2,303,819.14	\$2,965,616.20	\$6,504,475.81	\$12,639,858.43

PERSONNEL

A total of 83 employees made up the staff of the Department at its inception on April 1st, 1949. In the four years to March 31st, 1953, the number almost doubled with an increase of 75 to bring the total to 158 employees.

Included in this increase were seven employees of the Right of Entry Arbitration Board who were transferred from the Attorney General's Department on April 1st, 1951.

During the four-year period 137 employees left the Department. The largest group, totalling 48, left to accept employment outside the government, while the remainder left for a variety of reasons.

Right of Entry Arbitration Board

N. G. MELDRUM, *Chairman*

This is the second report of the Board appearing in the Report of the Department of Mines and Minerals since the transfer of administration of The Right of Entry Arbitration Act from the Attorney General to the Minister of Mines and Minerals on April 1st, 1951. The previous report gave a review of the years and the circumstances leading to the enactment of The Right of Entry Arbitration Act and the organization, functions and powers of the Board. Originally the Board consisted of one member, but the ever-increasing development of the mineral resources of the Province led to an increase in membership of the Board to two in 1950 and to three in 1952.

Although this report is included in the Department's report for the fiscal year 1952-53, the statistical information which follows is taken from the report of the Board to the Minister for the calendar year 1952.

During the calendar year 1952 the Board received 488 applications and disposed of 388. There was a total of 481 applications outstanding at the end of the year, an all-time high. The greatly increased amount of work in 1952 led to the appointment of the third Board member in September of that year but Mr. A. H. Clark died suddenly early in October following and the Board carried on with two members till February of this year, when Mr. T. E. Stickney was appointed in Mr. Clark's place.

The following table of applications received, disposed of and outstanding and the number of Orders issued in each year from 1947 to 1952 inclusive shows a steady increase in the work of the Board from year to year.

Year	Applications Received	Applications Disposed of	Applications Outstanding	No. of Orders Issued
1947	84	16	68	50
1948	114	107	75	155
1949	236	205	106	332
1950	450	266	290	585
1951	429	338	381	656
1952	488	388	481	775

In 1952, the Board's awards to owners of the surface rights for lands required for mineral development amount to \$144,440.26 for the first year, and \$47,316.00 for each year thereafter. The total awards made by the Board since its inception in 1947 amount to \$529,895.10 for the first year and \$164,248.60 for each year thereafter.

Analysis of the summary of awards made by the Board to December 31, 1952, reveals the following averages for petroleum and natural gas well locations on privately owned lands.

	Areas Taken (Acres)	Compensation for first year	Compensation for each sub- sequent year
Leduc-Woodbend	5.49	\$1,385.65	\$437.22
Redwater	3.95	1,131.88	399.87
Joseph Lake	3.82	915.68	305.90
Wizard Lake and Bonnie Glen	3.82	1,371.30	415.40
Armena-Camrose	3.92	1,123.23	385.70
Malmo	4.11	1,002.25	363.76

There has not been a sufficient number of awards made in other fields to indicate an average.

BOARD OF ARBITRATION

N. G. MELDRUM, Chairman

